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Application Serial Number:	09614221
Source:	OIPE
Date Processed by STIC:	11/16/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 c-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3 0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3 0 works for sequence listings generated for the original version of 37 CFR §§1 821 – 1 825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST 25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUCCESTED CORRECTION SERIAL NUMBER: 4/6/4/22/
ATTN: NEW RULES CAS	ES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY
IWrapped Nucleics Wrapped Aminos	The numberhest at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
JMisaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use apace characters, instead.
1Non-ASCII	The submitted file was not saved in ASCII(DOS) lext, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII feet.
SVariable Length.	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable knock and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0	A "bug" in Patentin version 2.6 has caused the \$\fo220> \cap 223 > \textstart action to be missing from amino acid sequences(s). Normally, Patentin would automatically, generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant \$\fo220> \cap 223 > \textstart action to the subsequent amino acid sequence. This applies to the mandatory \$\fo220> \cap 223 > \textstart actions for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insent the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insent SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insent any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insent SEQ ID NO where "X" is shown) This sequence is intentionally skipped
,	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequen <210> sequence id number <400> sequence id number 000
9 Use of n's or Xas's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valld <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species) <220>-<223> section is required when <213> response is Unknown is Artificial Sequence
IUk of <220>	Sequence(s)missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (See. 1.823 of Sequence Rules)
2PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw requence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
JMisuse of n	In can only be used to represent a single nucleoffde in a nucleic acid sequence. N is not used to represe any value not specifically a nucleoffde.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/614,221

DATE: 11/16/2001
TIME: 10:41:23

Input Set : N:\jumbos\614221.raw

```
2 <110> APPLICANT: Karunanandaa, Balasulojini
             Yu, Jaehyuk
             Kishore, Ganesh M.
      6 <120> TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED
             WITH STEROL SYNTHESIS AND METABOLISM
      9 <130> FILE REFERENCE: 05686.0004.NPUS00
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/614,221
C--> 11 <141> CURRENT FILING DATE: 2000-07-11
    11 <150> PRIOR APPLICATION NUMBER: US 60/142,981
    12 <151> PRIOR FILING DATE: 1999-07-12
                                              Must saw you page page
    14 <160> NUMBER OF SEQ ID NOS: 626
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    18 <212> TYPE: DNA
    19 <213> ORGANISM: Glycine max
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    25 <400> SEQUENCE: 1
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                                                                             53
                                 Met Thr Met Leu Gln Lys Met Ala Glu Leu
    28
    29
                                                                            101
    31 atg gag tac tct tac ctg tta gat atg gcg gac aag act gag gat cca
    32 Met Glu Tyr Ser Tyr Leu Leu Asp Met Ala Asp Lys Thr Glu Asp Pro
    35 tac atg aga cta gta tat get tea tea tte ttt ata tet gte tae tat
                                                                            149
    36 Tyr Met Arg Leu Val Tyr Ala Ser Ser Phe Phe Ile Ser Val Tyr Tyr
    37
                    30
                                        35
                                                            40
    39 qcc tat caa cga acq tqq aaq cca ttc aat cca att ctt ggt gag act
                                                                            197
    40 Ala Tyr Gln Arg Thr Trp Lys Pro Phe Asn Pro Ile Leu Gly Glu Thr
                                    50
                                                                            245
    43 tat gaa atg gtt aac cat ggt ggc att aca ttt ata tca gag cag gtc
    44 Tyr Glu Met Val Asn His Gly Gly Ile Thr Phe Ile Ser Glu Gln Val
                                65
                                                                            293
    47 agt cat cac cct cca atg agt gct ggg cat gct gaa act gaa cat ttc
    48 Ser His His Pro Pro Met Ser Ala Gly His Ala Glu Thr Glu His Phe
    49 75
                            80
                                                                            341
    51 act tat gat gtt aca tca aaa ttg aaa acc aaa ttt ctc ggc aac tca
    52 Thr Tyr Asp Val Thr Ser Lys Leu Lys Thr Lys Phe Leu Gly Asn Ser
                                            100
                       95
                                                                            389
    55 gtt gat gta tat cct gtt gga aga acg cgt gtt acc ctc aaa aga gat
    56 Val Asp Val Tyr Pro Val Gly Arg Thr Arg Val Thr Leu Lys Arg Asp
                   110
                                                                             437
    59 ggt gtg gtc ctt gat ttg gtg cct cct cct aca aaa gtt agc aac ttg
    60 Gly Val Val Leu Asp Leu Val Pro Pro Pro Thr Lys Val Ser Asn Leu
                                    130
                                                                            485
    63 att tit gga ega act tgg att gat tea eea gga gag atg ate etg aca
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RAW SEQUENCE LISTING DATE: 11/16/2001 PATENT APPLICATION: US/09/614,221 TIME: 10:41:23

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65 140 145 150	
67 aat ctg act aca ggg gac aaa gtg gtg ctg tat ttt caa cca tgt ggc	533
68 Asn Leu Thr Thr Gly Asp Lys Val Val Leu Tyr Phe Gln Pro Cys Gly	
69 155 160 165 170	E01
71 tgg ttt gga tat gaa gtg gat ggg tac gtg tat aat tct gct gac gag	581
72 Trp Phe Gly Tyr Glu Val Asp Gly Tyr Val Tyr Asn Ser Ala Asp Glu 73 185	
73 175 180 185 75 cct aag ata ctg atg act gga aaa tgg aat gag gct atg aat tat caa	629
76 Pro Lys Ile Leu Met Thr Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln	023
77 190 195 126 Mee 1M1 GIY LYS 11F ASII GIA AIA Mee ASII 171 GIA	
79 qtt tgt gac tca gag gga gaa cca ctt cca ggc act gag ttg aaa gag	677
80 Val Cys Asp Ser Glu Gly Glu Pro Leu Pro Gly Thr Glu Leu Lys Glu	
81 205 210 215	
83 att tgg aga gtt gct gat acc ccg aag aag gac aag ttc cag tac acg	725
84 Ile Trp Arg Val Ala Asp Thr Pro Lys Lys Asp Lys Phe Gln Tyr Thr	
85 220 225 230	
87 cat ttt gca cac aag att aac agc ttt gac act gct ccc aag aag ttg	773
88 His Phe Ala His Lys Ile Asn Ser Phe Asp Thr Ala Pro Lys Lys Leu	
89 235 240 245 250	
91 ttg gca tct gac tct cgt cta cgt cct gat aga atg gcc ctt gag aag	821
92 Leu Ala Ser Asp Ser Arg Leu Arg Pro Asp Arg Met Ala Leu Glu Lys	
93 255 260 265	0.60
95 ggt gac cta tcc aca tct ggt tat gag aag agc agt ttg gag gag agg	869
96 Gly Asp Leu Ser Thr Ser Gly Tyr Glu Lys Ser Ser Leu Glu Glu Arg 97 270 275 280	
99 caa aga got gag aag aga aac oga gag goo aag ggo cat aag tto act	917
100 Gln Arg Ala Glu Lys Arg Asn Arg Glu Ala Lys Gly His Lys Phe Thr	<i>J</i> ± /
101 285 290 295	
103 cct aga tgg ttt gat tta aca gat gaa gta act cct acc cct tgg ggt	965
104 Pro Arg Trp Phe Asp Leu Thr Asp Glu Val Thr Pro Thr Pro Trp Gly	
105 300 305 310	
107 gac ttg gaa gtt tac caa tac aac ggt aaa tat acc caa cat tgt gct	1013
108 Asp Leu Glu Val Tyr Gln Tyr Asn Gly Lys Tyr Thr Gln His Cys Ala	
109 315 320 325 330	
111 gcc gtt gat agt tct gag tgc att gaa gtg cct gac atc aga cca gaa	1061
112 Ala Val Asp Ser Ser Glu Cys Ile Glu Val Pro Asp Ile Arg Pro Glu	
113 335 340 345	
115 ttc aac cct tgg caa tat gat aat ttg gat gct gaa tag tgagcatcct	1110
116 Phe Asn Pro Trp Gln Tyr Asp Asn Leu Asp Ala Glu	
117 350 355	1170
119 tgtggaatto tttotatttt ttttaaatat cattttgtta ttaagtttgt aatgtaatot 121 tgattggaat gottgaaatt tggttttgtt tttgggttgt tttatcactg tagtatttga	1230
121 tyattyydat gottyddaett tygttitigit tittgygttyt titalcaety tagtatityd 123 ttaattaata gtagetatgt tagtteatea gtteaetttg eatggataaa tgetagtagg	1290
125 gaaattaaag ttatottooa aaaaaaaaaa aaaaaaaaa aaaaaaaa	1350
127 ggccgccg	1358
130 <210> SEQ ID NO: 2	
131 <211> LENGTH: 1136	
132 <212> TYPE: DNA	

RAW SEQUENCE LISTING

DATE: 11/16/2001 4,221 TIME: 10:41:23

PATENT APPLICATION: US/09/614,221

Input Set : N:\jumbos\614221.raw

		3> OI 0> FI			Glyd	cine	max										
		1> NA			CDS												
)	(975))									
							•										
) <400> SEQUENCE: 2 . qaattegget egaggteaca aetteagtge tatggtgaat eagtgtattg caeaggtteg == (60		
															111		
144																	
145				1				5					10)			
147	tct	gtg	gta	gca	tgg	tgc	ata	tct	acc	act	cgc	cct	gtg	act	ttt	ggt	159
148	Ser	Val	Val	Ala	Trp	Cys	Ile	Ser	Thr	Thr	Arg	Pro	Val	Thr	Phe	Gly	
149		15					20					25					
							att										207
152	Val	Ala	Pro	Tyr	Asn	Pro	Ile	Leu	Gly	Glu	Thr	His	His	Val	Ser	Arg	
153						35					40					45	
							ttg										255
156	Gly	Asn	Leu	Asn	Val	Leu	Leu	Glu	Gln	Ile	Ser	His	His	Pro	Pro	Val	
157					50					55					60		
							gat										303
160	Thr	Ala	Leu	His	Ala	Thr	Asp	Glu	Lys	Glu	Asn	Ile	Glu	Met	Leu	Trp	
161				65					70					75			
							aag										351
164	Cys	Gln	Arg	Pro	Asp	Pro	Lys	Phe	Asn	Gly	Thr	Ser		Glu	Ala	Lys	
165			80					85					90				
							ttg										399
168	Val	His	Gly	Ile	Arg	Gln	Leu	Lys	Leu	Leu	Asn		Gly	Glu	Thr	Tyr	
169		95					100					105					
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		Met	Asn	Cys	Pro	_	Leu	Leu	Leu	Arg		Leu	Pro	Val	Pro		
	110					115					120					125	
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	Ala	Asp	Trp	Ala		Thr	Val	Asn	Ile		Cys	Leu	Glu	Thr		Leu	
177					130					135					140		543
							aga										543
	Val	Ala	Glu		Ser	Tyr	Arg	Ser		Ser	Pne	Leu	GIY		GTĀ	GIA	
181				145					150					155			E 0.1
							ggg										591
	Asn	His		Val	Ile	Lys	Gly		He	Leu	Asp	Ser		ser	Leu	Lys	
185			160					165	.				170				620
	-			_	-	_	ggt										639
	val		Tyr	GIu	vaı	Asp	Gly	HIS	Trp	Asp	Arg		vaı	Lys	vaı	Lys	
189		175					180				+-+	185	~~~	224	~~~	~++	607
							gta										687
		Thr	ASN	ASN	GTÀ		Val	Arg	val	тте	1yr 200	ASP	Ald	гуѕ	GIU	va1 205	
	190	4	A 4	a+-	~	195	00±	- + -	a+ ~	222		2+2	~~~	~~+	at a		735
							cct										133
	мес	ser	стλ	ьeu	210	inr	Pro	116	ьeu	Lys 215	ASP	тте	GIU	σтλ	220	ттЪ	
197	022	3.00	a = 2	+ ~ ~		02+	α++	+~~	aat		++=	220	023	acc		ata	783
199	Caa	aca	yaa	ıca	get	Cal	gtt	Lgg	yyı	yaa	LLd	aac	Çad	yee	all	guy	103

RAW SEQUENCE LISTING

DATE: 11/16/2001 TIME: 10:41:23

PATENT APPLICATION: US/09/614,221

Input Set : N:\jumbos\614221.raw Output Set: $N:\CRF3\11162001\1614221.raw$

200 201	Gln	Thr	Glu	Ser 225	Ala	His	Val	Trp	Gly 230	Glu	Leu	Asn	Gln	Ala 235	Ile	Val	
	agc Ser																831
207	aga Arg		agg					gaa					gga				879
211 212	att Ile 270	tct					gtt					gaa					927
215	tca Ser					agt					ccc						975
219 221	aaaa	aaatt	ta a	atggt	aagta ttgaa	aa ti	ttga	acaa	c aat	aagta Lgaaq	gtat	ataa			aatgi	ttcata aattag	
226 227 228 229	<pre>ttac <210 <211 <211 <212 <2210</pre>	0> SI 1> LI 2> TY 3> OI	EQ II ENGTI (PE: RGANI	NO H: 13 DNA ISM:	: 3 355			iadāĢ	ago	ogge(oged.	g					1130
232 233	<222 <222 <400	1> NA 2> LO	AME/I	KEY:	(32))	(1099	9)									
	- 10	0, 0.															
237 238	ggaa	attc				aa to	gette	cagaa	1	Met A			Leu M	Met (gag t Glu T		52
237 238 239 241 242	ggaa tct Ser	tac	ggc t ctg Leu	tcga tta	ggaca gat	atg	gcg	gac Asp	aag	Met A l act	Ala (gag	Glu I gat	Leu M cca	Met (5 tac	Glu :	Tyr aga	100
237 238 239 241 242 243 245 246	tct	tac Tyr gta Val	ggc t ctg Leu 10 tat	tta Leu gct	gaca gat Asp tca	atg Met tca	gcg Ala ttc Phe	gac Asp 15 ttt	aag Lys ata	Met A l act Thr	gag Glu gtc	Glu I gat Asp tac	cca Pro 20 tat	Met (5 tac Tyr gcc	atg Met tat	Tyr aga Arg caa	
237 238 239 241 242 243 245 246 247 249 250	tct Ser cta Leu cga	tac Tyr gta Val 25 acg	ctg Leu 10 tat Tyr	tta Leu gct Ala	gat Asp tca Ser	atg Met tca Ser	gcg Ala ttc Phe 30 aat	gac Asp 15 ttt Phe	aag Lys ata Ile	Met A l act Thr tct Ser	gag Glu gtc Val	gat Asp tac Tyr 35 gag	cca Pro 20 tat Tyr	Met (5) tac Tyr gcc Ala	atg Met tat Tyr	Tyr aga Arg caa Gln atg	100
237 238 239 241 242 243 245 246 247 250 251 253	tct Ser cta Leu cga	tac Tyr gta Val 25 acg Thr	ctg Leu 10 tat Tyr tgg Trp	tta Leu gct Ala aag Lys	gat Asp tca Ser cca Pro	atg Met tca Ser ttc Phe 45 att	gcg Ala ttc Phe 30 aat Asn	gac Asp 15 ttt Phe cca Pro	aag Lys ata Ile att Ile	Met A l act Thr tct Ser ctt Leu tca	gag Glu gtc Val ggt Gly 50 gag	gat Asp tac Tyr 35 gag Glu	cca Pro 20 tat Tyr act Thr	tac Tyr gcc Ala tat Tyr	atg Met tat Tyr gaa Glu	aga Arg caa Gln atg Met 55 cac	100
237 238 239 241 242 243 245 246 247 249 250 251 253 254 255 257	tct Ser cta Leu cga Arg 40 gtt	tac Tyr gta Val 25 acg Thr aac Asn	ctg Leu 10 tat Tyr tgg Trp cat His	tta Leu gct Ala aag Lys ggt Gly	gat Asp tca Ser cca Pro ggc Gly 60 gct	atg Met tca Ser ttc Phe 45 att Ile	gcg Ala ttc Phe 30 aat Asn aca Thr	gac Asp 15 ttt Phe cca Pro ttt Phe	aag Lys ata Ile att Ile ata Ile	Met A l act Thr tct Ser ctt Leu tca Ser 65 act	gag Glu gtc Val ggt Gly 50 gag Glu	gat Asp tac Tyr 35 gag Glu cag Gln	cca Pro 20 tat Tyr act Thr gtc Val	Met (5) tac Tyr gcc Ala tat Tyr agt Ser act	atg Met tat Tyr gaa Glu cat His 70 tat	aga Arg caa Gln atg Met 55 cac His	100 148 196
237 238 239 241 242 243 245 246 247 251 253 254 255 257 258 259 261	tct Ser cta Leu cga Arg 40 gtt Val	tac Tyr gta Val 25 acg Thr aac Asn cca Pro	ctg Leu 10 tat Tyr tgg Trp cat His atg Met tca	tta Leu gct Ala aag Lys ggt Gly agt Ser 75	gat Asp tca Ser cca Pro ggc Gly 60 gct Ala	atg Met tca Ser ttc Phe 45 att Ile ggg Gly	gcg Ala ttc Phe 30 aat Asn aca Thr cat His	gac Asp 15 ttt Phe cca Pro ttt Phe gct Ala	aag Lys ata Ile att Ile ata Ile gaa Glu 80 ttt	Met A act Thr tct Ser ctt Leu tca Ser act Thr ctc	gag Glu gtc Val ggt Gly 50 gag Glu gaa Glu	gat Asp tac Tyr 35 gag Glu cag Gln cat His	cca Pro 20 tat Tyr act Thr gtc Val ttc Phe	Met (5) tac Tyr gcc Ala tat Tyr agt act Thr 85 gtt	atg Met tat Tyr gaa Glu cat His 70 tat Tyr	aga Arg caa Gln atg Met 55 cac His gat Asp	100 148 196 244

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/614,221

DATE: 11/16/2001
TIME: 10:41:23

Input Set : N:\jumbos\614221.raw

		gat															436
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		act Thr															404
275	AIG	1111	пр	116	140	261	PIO	СТУ	GIU	145	116	Leu	1111	поп	150	1111	
	aca	ggg	gac	aaa		ata	cta	tat	+++		сса	tat	aac	taa		ααa	532
		Gly															
279			·····	155				- 1 -	160				- 4	165		1	
281	gct	ggt	aga	tat	gaa	gtg	gat	ggg	tac	gtg	tat	aat	tct	gct	gac	gag	580
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		Cys	Asp	Ser	GIu		Glu	Pro	Leu	Pro		Thr	Glu	Leu	Lys		
291						205					210			~~~	+	215	724
		tgg															724
	TTE	Trp	Arg	val	220	Asp	Thr	Pro	гуѕ	Lys 225	ASP	ьуѕ	Pne	GIII	230	1111	
295	aa+	ttt	~~~	020		2++	330	3.00	+++		act	act	CCC	аал		tta	772
		Phe															/ / 1
299	птъ	rne	ΑΙα	235	цуз	116	NSII	DCI	240	пор	1111	ALU	110	245	цу	Leu	
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		Ala															
303			250					255		- 1	,		260			•	
305	ggt	gac	cta	tcc	aca	tct	ggt	tat	gag	aag	agc	agt	ttg	gag	gag	agg	868
306	Gly	Asp	Leu	Ser	Thr	Ser	Gly	Tyr	Glu	Lys	Ser	Ser	Leu	Glu	Glu	Arg	
307		265					270					275					
		aga															916
310	Gln	Arg	Ala	Glu	Lys		Asn	Arg	Glu	Ala		Gly	His	Lys	Phe		
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		aga															964
	Pro	Arg	Trp	Phe	-	Leu	Thr	Asp	Glu		Thr	Pro	Tnr	Pro		GIY	
315					300				~~+	305	+-+	200		aa+	310	ant	1012
		ttg Leu															1012
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	acc	gtt	gat		tct	σаσ	tac	att		ata	cct	gac	atc		сса	gaa	1060
		Val															
323		, 41	330	001	201	014	010	335					340	,			
	ttc	aac	cct	tqq	caa	tat	gat	aat	ttg	gat	gct	qaa	tag	tga	gcato	cct	1109
		Asn												-			
327		345		•		-	350			-		355					
329	tgt	ggaat	itc t	ttct	atti	tt tt	tgaa	aatat	cat	tttt	gtta	ttaa	agtti	tgt a	aatgi	taatct	1169
																atttga	1229
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/614,221 TIME: 10:41:24

DATE: 11/16/2001

Input Set : N:\jumbos\614221.raw

Output Set: N:\CRF3\11162001\1614221.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:644 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7 L:644 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7 L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:646 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7 $L:646\ M:258\ W:$ Mandatory Feature missing, <222> not found for SEQ ID#:7 L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:648 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7 L:648 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7 L:648~M:341~W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:661 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8 $L:661\ M:258\ W:$ Mandatory Feature missing, <222> not found for SEQ ID#:8 L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 L:663 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8 $L:663\ M:258\ W:$ Mandatory Feature missing, <222> not found for SEQ ID#:8 L:663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 L:665 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8 $L:665\ M:258\ W:$ Mandatory Feature missing, <222> not found for SEQ ID#:8 L:665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 L:667 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8 $L:667\ M:258\ W:$ Mandatory Feature missing, <222> not found for SEQ ID#:8 L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 L:718 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:11 L:718 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:11 L:718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 L:757 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13 L:757 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13 L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:763 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13 L:763 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13 L:763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:778 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:14 L:778 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14 L:778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 L:788 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:14 L:788 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14 $L:788 \ M:341 \ W:$ (46) "n" or "Xaa" used, for SEQ ID#:14 L:809 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:15 L:809 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:15 L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 L:844 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17 L:844 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17 L:844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 L:846 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:17 L:846 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:17 L:846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 L:923 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/614,221

DATE: 11/16/2001 TIME: 10:41:24

Input Set : N:\jumbos\614221.raw

Output Set: N:\CRF3\11162001\1614221.raw

L:923 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21 L:923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 L:992 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24 L:992 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24 L:992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 L:994 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24 $L:994\ M:258\ W:$ Mandatory Feature missing, <222> not found for SEQ ID#:24 L:994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 L:996 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24 $L:996\ M:258\ W:$ Mandatory Feature missing, <222> not found for SEQ ID#:24 $L:996\ M:341\ W:\ (46)\ "n"$ or "Xaa" used, for SEQ ID#:24 L:998 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24 L:998 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24 L:998 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 $L:1013\ M:258\ W:$ Mandatory Feature missing, <221> not found for SEQ ID#:25 L:1013 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25 L:1013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 L:1015 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25 L:1015 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25 L:1015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 L:1017 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25 L:1017 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25 L:1017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 L:1019 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25 $L:1019\ M:258\ W:$ Mandatory Feature missing, <222> not found for SEQ ID#:25 $L:1019 \ M:341 \ W:$ (46) "n" or "Xaa" used, for SEQ ID#:25 L:1032 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:26 L:1032 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:26 L:1032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 L:1034 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 L:1057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:1061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:1063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:1065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:1067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 $L:1088 \ M:341 \ W:$ (46) "n" or "Xaa" used, for SEQ ID#:28 L:1090 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 L:1092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 L:1094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 L:1096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 $L:1109 \ M:341 \ W: (46)$ "n" or "Xaa" used, for SEQ ID#:29 L:1111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 L:1113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29